Advance Chemicals Ltd.

# Safety Data Sheet

## Section 01 - Identification

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|---|---|
| **Product Identifier** | Presoak Powder CL |
| **Other Means of Identification** | None |
| **Product Use and Restrictions on Use** | Chlorinated detergent for use in soft and medium water hardness. |
| **Initial Supplier Identifier** | Advance Chemicals Ltd.<br>1500 Quebec Avenue<br>Saskatoon, SK. Canada<br>S7K 1V7 |
| **Prepared By** | ClearTech Industries Inc. Technical Writer<br>Phone: 1 (800) 387-7503 |
| **24-Hour Emergency Phone** | Phone: 1 (306) 664 – 2522 |

## Section 02 - Hazard Identification

### GHS-Classification

| | |
|---|---|
| **Skin Corrosion/Irritation** | Category 2 |
| **Serious Eye Damage/Irritation** | Category 1 |
| **STOT-Single Exposure** | Category 3 |

### Physical Hazards

No known physical hazards.

**Danger**

**Hazards Statements**
H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H335 – May cause respiratory irritation.

**Pictograms**

**Precautionary Statements**
P405 – Store locked up.
P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.
P271 – Use only outdoors or in a well-ventilated area.
P261 – Avoid breathing dust.

P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 – If skin irritation occurs: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 – Immediately call a POISON CENTER or doctor/physician.
P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

## Section 03 - Composition / Information on Ingredients

| Chemical Name | CAS Number | Weight % | Unique Identifiers |
|---|---|---|---|
| Sodium Carbonate | 497-19-8 | 50-65% | |
| Sodium Metasilicate | 6834-92-0 | 30-45% | |
| Stabilized Granular Chlorine | 7782-50-5 | 1-10% | |

## Section 04 - First Aid Measures

**Inhalation** Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

**Skin Contact / Absorption** Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water for 30 minutes. If irritation persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

**Eye Contact** Immediately flush eye(s) with lukewarm, gently flowing water for 30 minutes, while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens is present, remove only if easy to do so. Seek immediate medical attention.

**Ingestion** Do not give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth with water. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention.

**Additional Information** Not Available

## Section 05 - Fire Fighting Measures

**Suitable Extinguishing Media** Use extinguishing media suitable for surrounding fire.

**Unsuitable Extinguishing Media** Not Available

**Specific Hazards Arising From the Chemical** Sodium oxide, carbon monoxide, carbon dioxide, silicon oxide, hydrogen chloride and chlorine compounds may form in a fire or when exposed to extreme heat.

**Special Protective Equipment and Precautions for Fire-Fighters** Wear NIOSH-approved self-contained breathing apparatus and protective gear.

**Further Information** Not Available

## Section 06 - Accidental Release Measures

**Personal Precautions / Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

**Environmental Precautions** Prevent product from entering sewers or waterways.

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| **Methods and Materials for Containment and Cleaning Up** | Clean up spill with non-reactive absorbent material and place in suitable, labelled containers for proper disposal. |

## Section 07 - Handling and Storage

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| **Precautions for Safe Handling** | Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. |
| **Conditions for Safe Storage** | Store in a cool, dry, ventilated area. Store away from incompatible materials. |
| **Incompatibilities** | Acids. |

## Section 08 - Exposure Controls and Personal Protection

### Exposure Limit(s)

| Component | Regulation | Type of Listing | Value |
|---|---|---|---|
| Chlorine | ACGIH | TLV-TWA | 0.5 ppm |
| | ACGIH | TLV-STEL | 1 ppm |
| | OSHA | PEL-TWA | 0.5 ppm |
| | OSHA | PEL-STEL | 1 ppm |

### Engineering Control(s)

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|---|---|
| **Ventilation Requirements** | Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems. |
| **Other** | Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity. |

### Protective Equipment

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| **Eyes/Face** | Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury. |
| **Hand Protection** | Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. |
| **Skin and Body Protection** | Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.<br><br>Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work. |
| **Respiratory Protection** | NIOSH RECOMMENDATIONS FOR CHLORINE CONCENTRATIONS IN AIR:<br>Up to 5 ppm:<br>(APF=10) Chemical cartridge respirator; SAR.<br>Up to 10 ppm:<br>(APF=25) SAR operated in a continuous-flow mode; powered, air-purifying respirator with cartridge(s).<br>(APF=50) Chemical cartridge respirator with a full facepiece and cartridge(s); air-purifying, full facepiece respirator (gas mask) with a chin-style, front- or back- mounted canister; SCBA with a full facepiece; full facepiece SAR.<br>Emergency or planned entry into unknown concentrations or IDLH conditions:<br>(APF=10,000) SCBA that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode; SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA. |

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| | Escape:<br>(APF=50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back- mounted canister; Any appropriate escape-type SCBA.<br><br>NOTE: The IDLH concentration for chlorine is 10 ppm. |
| **Thermal Hazards** | Not Available |

## Section 09 - Physical and Chemical Properties

### Appearance

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|---|---|
| **Physical State** | Solid, powder |
| **Colour** | Cream |
| **Odour** | Chlorine-like |
| **Odour Threshold** | Not Available |

### Property

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| **pH** | 8.5 |
| **Melting Point/Freezing Point** | Not Available |
| **Initial Boiling Point and Boiling Range** | Not Available |
| **Flash Point** | Not Available |
| **Evaporation Rate** | Not Available |
| **Flammability** | Non-flammable |
| **Upper Flammable Limit** | Not Applicable |
| **Lower Flammable Limit** | Not Applicable |
| **Vapour Pressure (mm Hg, 20$^{o}$C)** | Not Available |
| **Vapour Density (Air=1)** | Not Available |
| **Relative Density** | Not Available |
| **Solubility(ies)** | Soluble in water. |
| **Partition Coefficient: n-octanol/water** | Not Available |
| **Auto-ignition Temperature** | Not Available |
| **Decomposition Temperature** | Not Available |
| **Viscosity** | Not Available |
| **Explosive Properties** | Not Available |
| **Specific Gravity (Water=1)** | 1 |

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| **% Volatiles by Volume** | Not Available |
| **Formula** | Mixture |
| **Molecular Weight** | Not Available |

## Section 10 - Stability and Reactivity

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| **Reactivity** | Not Available |
| **Stability** | Stable. |
| **Possibility of Hazardous Reactions** | Polymerization will not occur. |
| **Conditions to Avoid** | Not Available |
| **Incompatible Materials** | Acids. |
| **Hazardous Decomposition Products** | Sodium oxide, carbon monoxide, carbon dioxide, hydrogen chloride, hydrochloric acid and hypochlorous acid. |

## Section 11 - Toxicological Information

### Acute Toxicity Estimate

| Component | Oral $LD_{50}$ | Dermal $LD_{50}$ | Inhalation $LC_{50}$ |
|---|---|---|---|
| Presoak Powder CL | 1,102 mg/kg | 2,702 mg/kg | 91 ppm |

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

### Chronic Toxicity – Carcinogenicity

| Component | IARC |
|---|---|
| Presoak Powder CL | None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen. |

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| **Skin Corrosion/Irritation** | Can cause skin irritation. |
| **Ingestion** | May cause gastrointestinal upset; vomiting; nausea; diarrhea. |
| **Inhalation** | Chlorine gas is corrosive and can cause severe irritaiton to the upper and lower respiratory tract. Pulmonary edema can result from exposure to chlorine. |
| **Serious Eye Damage/Irritation** | Can cause serious eye irritation and burns. Permanent damage can result. |
| **Respiratory or Skin Sensitization** | Not Available |
| **Germ Cell Mutagenicity** | Not Available |
| **Reproductive Toxicity** | Not Available |
| **STOT-Single Exposure** | Generation of dust may cause respiratory irritation. |
| **STOT-Repeated Exposure** | Not Available |
| **Aspiration Hazard** | Not Available |
| **Synergistic Materials** | Not Available |

## Section 12 – Ecological Information

**Ecotoxicity**

| Component | Toxicity to Algae | Toxicity to Fish | Toxicity to Daphnia and Other Aquatic Invertebrates |
|---|---|---|---|
| Sodium Carbonate | $EC_{50}$(Diatom, 96hr): 242 mg/L | $LC_{50}$(Lepomis macrochirus, 24hr): 167mg/L | $LC_{50}$(Daphina magna, 24hr): 196mg/L |
| Chlorine | Not Available | $LC_{50}$ (Oncorhynchus mykiss, 96hr): 0.12mg/L | $LC_{50}$(Daphnia pulex, 96hr): 0.49mg/L |

**Biodegradability** Not Available

**Bioaccumulation** Not Available

**Mobility** Not Available

**Other Adverse Effects** Chlorine is highly toxic to the aquatic environment.

## Section 13 – Disposal Considerations

**Waste From Residues/Unused Products** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

**Contaminated Packaging** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

## Section 14 – Transport Information

**UN Number** Not Regulated

**UN Proper Shipping Name** Not Regulated

**Transport Hazard Class(es)** Not Regulated

**Packaging Group** Not Regulated

**Environmental Hazards** Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

**Special Precautions** Not Available

**Transport in Bulk** Not Available

**TDG**

**Other** Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

**TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.**

## Section 15 – Regulatory Information

**NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

## Section 16 – Other Information

**Preparation Date** May 6, 2016

**Revision Date** 2017 May 16

**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

**Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

**References:**


1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transportation of Dangerous Goods Canada
5) HSDB
6) ECHA


## Advance Chemicals Ltd. - Locations


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## 24 Hour Emergency Number - All Locations – 1(306) 664-2522